

# OPTICAL BENCH FOR DIODE-PUMPED SOLID STATE LASERS IN FIELD APPLICATIONS

## ABSTRACT OF THE DISCLOSURE

A rugged resonator for a laser includes a laser pump housing. An X-fold resonator  
5 assembly is configured to receive and hold the laser pump housing. The resonator includes at least four mirrors, a first, a second, a third, and a fourth mirror. The first mirror is configured to receive a first incident laser beam from the first end and to reflect a first reflected beam to reflect as a third reflected beam from the third mirror. The second mirror is configured to receive a second incident laser beam from the second end and reflecting a second reflected  
10 beam to intersect the first reflected beam and to reflect as a fourth reflected beam from the fourth mirror. An optical coupler is affixed to an optics plate and configured to receive the third reflected beam. A high reflector is affixed to the optics plate and configured to receive the fourth reflected beam.



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